IBM Docket No.:

BOC9-2001-0003

U.S. Appln. No. 09/885,705 Amendment Dated April 26, 2005 Reply to Office Action of February 14, 2005 Docket No. 6165-243

## REMARKS/ARGUMENTS

These remarks are submitted responsive to the final Office Action of February 14, 2005 (Office Action). As this response is timely filed within the 3-month shortened statutory period, no fee is believed due. To expedite prosecution, this response is filed as a Request for Continued Examination (RCE).

In paragraphs 5-6, the Examiner has rejected claim 11 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent Publication No. 2003/0069908 to Anthony, et al. (Anthony). In paragraphs 7-8, the Examiner has rejected claims 1-3, 5-6, 16-18, and 20-21 under 35 U.S.C. § 103(a) as being unpatentable over Anthony in view of U.S. Patent Publication No. 2002/0016828, to Daugherty, et al. (Daugherty). In paragraph 9, the Examiner has rejected claims 4 and 19 under 35 U.S.C. § 103(a) as being unpatentable over Anthony in view of Daugherty, in further view of "Understanding UML The Developer's Cluide with a Web-Based Application in Java", Harmon, et al., Morgan Kaufmann Publishers, Inc. 1998, pp. 214-253 (Harmon). In paragraph 10, the Examiner rejected claims 7-8 and 10 under Anthony in view of "Laura Lemay's Web Workshop JavaScript", Lemay, et al., Sams, 1996, pp. 7-9 (Lemay). In paragraph 11, the Examiner rejected claims 9 and 14-15 under 35 U.S.C. § 103(a) as being unpatentable over Anthony in view of Lemay and in further view of Harmon. In paragraph 13, the Examiner rejected claim 12 under 35 U.S.C. § 103(a) as being unpatentable over Anthony in view of Harmon.

5616596313 T-627 P.12/16 Job-559

U.S. Appln. No. 09/885,705 Amendment Dated April 26, 2005

Reply to Office Action of February 14, 2005

Docket No. 6169-243

IBM Docket No.:

BOC9-2001-0003

Before turning to the amendments to the claims, Applicant will take a moment to

explain state chart diagrams. Many different software models and tools exist for

modeling software (background page 1, lines 6-10). State chart diagrams (claimed) and

class diagrams (Anthony) are two different types of diagrams that software developers

situationally utilize. Applicant has referenced a number of Web sites for the convenience

of the Examiner, each providing an overview of what is meant by a state chart diagram

within computer science. Note, there is nothing special about any of these references,

and any Web site or computer science reference book can be accessed for similar

teachings.

(1) http://www.developer.com/design/article.php/2238131

(2) http://www-128.ibm.com/developerworks/rational/library/769.html

(3) http://www.agilemodeling.com/artifacts/stateMachineDiagram.htm

(4) http://pigseye.kennesaw.edu/~dbraun/csis4650/A&D/UML tutorial/state.htm

(5) http://www.raba.com/~jcstaff/oodev/presents/uml/intro\_uml/sld120.htm

From the first (1) Web site, "State diagrams (also called State Chart diagrams)

are used to help the developer better understand any complex/unusual functionalities or

business flows of specialized areas of the system. In short, State diagrams depict the

dynamic behavior of the entire system, or a sub-system, or even a single object in a

system. This is done with the help of Behavioral elements." A similar definition has been

provided on page 1, lines 5-14 of the Applicant's specification and was provided in the

remarks to the previous Office Action.

9

(FT268525;1)

T-627 P.13/16 Job-559

U.S. Appln. No. 09/885,705

Amendment Dated April 26, 2005
Reply to Office Action of February 14, 2005

Docket No. 6169-243

IBM Docket No.:

BQC9-2001-0003

The Examiner's provided reasoning that Anthony teaches state diagrams because

Anthony utilizes class names, such as clothing, instances, solid and dashed lines, is not

clear to the Applicant and appears to be contradictory to accepted teachings in the art.

Specifically, Applicant directs the Examiner to the discussions of class diagrams and

state chart diagrams contained within the second (2) Web site.

Applicant also refers the Examiner to the second (2) Web site for the standardized

conventions used within state chart diagrams. "As shown in Figure 5, the notation set of

the statechart diagram has five basic elements: the initial starting point, which is drawn

using a solid circle; a transition between states, which is drawn using a line with an open

arrowhead; a state, which is drawn using a rectangle with rounded corners; a decision

point, which is drawn as an open circle; and one or more termination points, which are

drawn using a circle with a solid circle inside it. To draw a statechart diagram, begin

with a starting point and a transition line pointing to the initial state of the class. Draw

the states themselves anywhere on the diagram, and then simply connect them using the

state transition lines." Considering the above paragraph together with page 1, lines 15-

27, it is clear that Applicant's conventions follow the standards for state chart diagrams,

which are fundamentally different than those for class diagrams (See

http://www.agilemodeling.com/artifacts/classDiagram.htm, hereafter Web Site (6), for a

class diagram overview). Comparing these teachings to Anthony, it is clear that

Anthony's teachings are specific teachings for class diagrams teachings.

10

{FT268525;1}

T-627 P.14/16 Job-559

U.S. Appln. No. (19/885,705

Amendment Dated April 26, 2005

Reply to Office Action of February 14, 2005

Docket No. 6169-243

IBM Docket No.:

BOC9-2001-0003

Turning to the amendments of claims, Applicant has amended claims 1, 7, 11, 14,

and 16 to clarify the meanings of state chart diagram, state chart data, and state transition

data. These amendments are consistent with conventional computer science definitions

for the terms, which can be confirmed by comparing the amendment definitions with the

referenced Web sites.

More specifically, the claims have been amended to clarify that state chart

diagrams specify behavior for a plurality of objects, that state chart data specifies life-

cycle states possible for each object and behavior exhibited by said objects for each

specified state, and that state transition data specifies event occurrences for transitioning

from one state to another. In addition to being supported by conventional computer

science definitions for these terms, these claim amendments are supported by page 1,

lines 6-14 and page 1, lines 20-21, and throughout the Applicant's specification. No new

matter results from the claim amendments.

Having made the above amendments and having provided references supporting

definitions for state chart diagrams and class diagrams, Applicant reasserts his previous

remarks. That is, Applicant respectfully incorporates his previous remarks to be

reviewed in light of the present claim amendments. These previous remarks were not

fully addressed as the Examiner stated that the claims failed to support the Applicant's

previous arguments.

11

(FT268525;1)

T-627 P.15/16 Job-559

IBM Docket No.:

BOC9-2001-0003

Amendment Dated April 26, 2005 Reply to Office Action of February 14, 2005

Docket No. 6169-243

U.S. Appln. No. 09/885,705

To summarize these remarks. Anthony provides teachings regarding class

diagrams, and is silent regarding state diagrams. Anthony fails to teach modeling

behavior exhibited by objects or lifecycle states for the objects and behavior exhibited by

the objects at the specified states, which is claimed by the Applicant. Anthony teaches a

different type of software modeling. Anthony is non-analogous art.

Class names and class instances from Anthony are different from state chart names

and transition data (Applicant again refers the Examiner to the referenced Web sites and

teachings contained therein, which represents teachings held by one of ordinary skill in

the art). Parsing arrows (Anthony) is dissimilar to parsing composite state actions -

which is apparent from comparing the generic state diagram teachings from Web site (3)

with the generic class diagram teachings from referenced Web site (6). The translator of

Anthony is not analogous to the claimed state machine modeling tool. For more

complete reasoning regarding these differences, see the previous reply to office action

dated October 28, 2004.

The other references (Daugherty, Harmon, Lemay) also lack teachings relating to

state chart diagrams, and individually and collectively fail to cure the deficiencies of

Anthony. Since Anthony, Daugherty, Harmon, Lemay, and combinations thereof fail to

explicitly, inherently, or implicitly teach or suggest the Applicant's claimed invention, the

35 U.S.C. § 102 and § 103 rejections to claims 1-21 should be withdrawn, which action is

respectfully requested.

12

(FT268525;1)

T-627 P.16/16 Job-559

U.S. Appln. No. 09/885,705 Amendment Dated April 26, 2005 Reply to Office Action of February 14, 2005 Docket No. 6169-243 IBM Docket No.:

BOC9-2001-0003

Applicants believe that this application is now in full condition for allowance,

which action is respectfully requested. The Applicants request that the Examiner call the

undersigned if clarification is needed on any matter within this Amendment, or if the

Examiner believes a telephone interview would expedite the prosecution of the subject

application to completion.

Respectfully submitted,

Date: 24 April 2005

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